

WHAT IS CLAIMED IS:

1. A method for call answer while connected to voice mail, comprising:

generating real-time packets for transmission of a  
5 message toward a voice mail system;

interrupting generation of the real-time packets upon a call answer by a party generating the message;

resuming generation of the real-time packets for transmission of the message toward the voice mail system  
10 after a delay associated with the call answer; and

indicating to the voice mail system that the real-time packets generated subsequent to the delay follow the real-time packets generated prior to the delay in the message by a time amount less than the delay.  
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2. The method of Claim 1, further comprising transmitting the real-time packets as they are generated.

3. The method of Claim 1, further comprising indicating to the voice mail system that the real-time packets generated subsequent to the delay substantially immediately follow the real-time packets generated prior to the delay in the message.  
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4. The method of Claim 1, further comprising indicating to the voice mail system that the real-time packets generated subsequent to the delay immediately follow the real-time packets generated prior to the delay in the message.  
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Sup A3  
5. The method of Claim 1, wherein the indication to the voice mail system that the real-time packets generated subsequent to the delay follow the real-time packets generated prior to the delay in the message by a the time amount less than the delay comprises an in-band notification.

6. The method of Claim 5, wherein the in-band notification comprises timing indicators in the real-time packets.

7. The method of Claim 6, wherein the timing indicators comprise time stamps.

8. The method of Claim 6, wherein the timing indicators comprise sequence numbers.

9. The method of Claim 1, wherein the indication to the voice mail system that the real-time packets generated subsequent to the delay follow the real-time packets generated prior to the delay in the message by the time amount less than the delay comprises an out-of-band signal between a device generating the real-time packets and the voice mail system.

10. The method of Claim 1, wherein the packets comprise real-time transport protocol (RTP) packets.

Sup A4  
11. The method of Claim 10, wherein the RTP packets each comprise a time stamp and sequence number operable to indicate to the voice mail system that the RTP packets generated subsequent to the delay substantially

immediately follow the RTP packets generated prior to the delay in the message.

12. The method of Claim 1, further comprising:

5 storing a value of a timing indicator upon the call answer by the party generating the message; and

generating the real-time packets for transmission of the message after the delay based on the value of the timing indicator.

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13. The method of Claim 12, generating real-time packets for transmission of the message after the delay based on the value of the timing indicator comprising generating a first real-time packet after the delay using  
15 the value of the timing indicator and generating each successive real-time packet by incrementing the timing indicator of the previous packet.

14. The method of Claim 13, generating the first  
20 real-time packet after the delay using the value of the timing indicator comprising including the value of the timing indicator in the first real-time packet after the delay.

15. The method of Claim 1, further comprising periodically transmitting a packet during the delay to prevent an automatic disconnect by the voice mail system.

16. A system for call answer while connected to voice mail, comprising:

logic encoded in media;

the logic operable to generate real-time packets for  
5 transmission of a message toward a voice mail system, to  
interrupt generation of the real-time packets upon a call  
answer by a party generating the message, to resume  
generation of the real-time packets for transmission of  
the message toward the voice mail system after a delay  
10 associated with the call answer and to indicate to the  
voice mail system that the real-time packets generated  
subsequent to the delay follow the real-time packets  
generated prior to the delay in the message by a time  
amount less than the delay.

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17. The system of Claim 16, the logic further operable to transmit the real-time packets as they are generated.

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18. The system of Claim 16, the logic further operable to indicate to the voice mail system that the  
*Sub A5* real-time packets generated subsequent to the delay  
substantially immediately follow the real-time packets  
generated prior to the delay in the message.

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19. The system of Claim 16, the logic further operable to indicate to the voice mail system that the  
real-time packets generated subsequent to the delay  
immediately follow the real-time packets generated prior  
30 to the delay in the message.

20. The system of Claim 16, wherein the indication to the voice mail system that the real-time packets

generated subsequent to the delay follow the real-time packets generated prior to the delay in the message by a time amount less than the delay comprises an in-band notification.

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21. The system of Claim 20, wherein the in-band notification comprises timing indicators in the real-time packets.

10 22. The system of Claim 21, wherein the timing indicators comprise time stamps.

23. The system of Claim 21, wherein the timing indicators comprise sequence numbers.

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24. The system of Claim 16, wherein the indication to the voice mail system that the real-time packets generated subsequent to the delay follow the real-time packets generated prior to the delay in the message by the time amount less than the delay comprises an out-of-band signal between a device generating the real-time packets and the voice mail system.

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25. The system of Claim 16, wherein the packets  
25 comprise real-time transport protocol (RTP) packets.

26. The system of Claim 25, wherein the RTP packets each comprise a time stamp and a sequence number operable to indicate to the voice mail system that the RTP packets generated subsequent to the delay substantially immediately follow the RTP packets generated prior to the delay in the message.

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27. The system of Claim 16, the logic further operable to store a value of a timing indicator upon the call answered by the party generating the message and to generate the real-time packets for transmission of the message after the delay based on the value of the timing indicator.

28. The system of Claim 27, the logic operable to generate real-time packets for transmission of the message after the delay based on the value of the timing indicator by generating a first real-time packet after the delay using the value of the timing indicator and generating each successive real-time packet by incrementing the timing indicator of the previous packet.

29. The system of Claim 28, the logic operable to generate the first real-time packet after the delay using the value of the timing indicator by including the value of the timing indicator in the first real-time packet after the delay.

30. The system of Claim 16, logic further operable to periodically transmit a packet during the delay to prevent an automatic disconnect by the voice mail system.

31. A system for call answer while connected to voice mail, comprising:

means for generating real-time packets for transmission of a message toward a voice mail system;

5 means for interrupting generation of the real-time packets upon a call answer by a party generating the message;

means for resuming generation of the real-time packets for transmission of the message toward the voice mail system after a delay associated with the call answer; and

means for indicating to the voice mail system that the real-time packets generated subsequent to the delay follow the real-time packets generated prior to the delay in the message by a time amount less than the delay.

32. The system of Claim 31, further comprising means for transmitting the real-time packets as they are generated.

33. The system of Claim 31, further comprising means for indicating to the voice mail system that the real-time packets generated subsequent to the delay substantially immediately follow the real-time packets generated prior to the delay in the message.

34. The system of Claim 31, further comprising means for indicating to the voice mail system that the real-time packets generated subsequent to the delay immediately follow the real-time packets generated prior to the delay in the message.

35. The system of Claim 31, wherein the indication to the voice mail system that the real-time packets generated subsequent to the delay follow the real-time packets generated prior to the delay in the message by a time amount less than the delay comprises an in-band notification.

36. The system method of Claim 35, wherein the in-band notification comprises timing indicators in the real-time packets.

37. The system of Claim 35, wherein the timing indicators comprise time stamps.

38. The system of Claim 35, wherein the timing indicators comprise sequence numbers.

39. The system of Claim 31, wherein the indication to the voice mail system that the real-time packets generated subsequent to the delay follow the real-time packets generated prior to the delay in the message by the time amount less than the delay comprises an out-of-band signal between a device generating the real-time packets and the voice mail system.

40. The system of Claim 31, wherein the packets comprise real-time transport protocol (RTP) packets.

41. The system of Claim 40, wherein the RTP packets each comprise a time stamp and sequence number operable to indicate to the voice mail system that the RTP packets generated subsequent to the delay substantially



immediately follow the RTP packets generated prior to the delay in the message.

42. The system of Claim 31, further comprising:

- 5 means for storing a value of a timing indicator upon the call answer by the party generating the message; and  
means for generating the real-time packets for transmission of the message after the delay based on the value of the timing indicator.

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43. The system of Claim 42, the means for generating real-time packets for transmission of the message after the delay based on the value of the timing indicator comprising means for generating a first real-  
15 time packet after the delay using the value of the timing indicator and generating each successive real-time packet by incrementing the timing indicator of the previous packet.

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44. The system of Claim 43, the means for generating the first real-time packet after the delay using the value of the timing indicator comprising means for including the value of the timing indicator in the first real-time packet after the delay.

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45. The system of Claim 31, further comprising means for periodically transmitting a packet during the delay to prevent an automatic disconnect by the voice mail system.

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46. A method for interrupting of a real-time connection to a non real-time application, comprising:

generating real-time packets for transmission of an information stream toward a non-real time application;

5 interrupting generation of the real-time packets upon an intervening event;

resuming generation of the real-time packets for transmission of the information stream toward the non real-time application after a delay associated with the  
10 intervening event; and

indicating to the non real-time application that the real-time packets generated subsequent to the delay follow the real-time packets generated prior to the pause in the information stream by a time less than the delay.  
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47. The method of Claim 46, further comprising transmitting the real-time packets as they are generated.

48. The method of Claim 46, further comprising  
20 indicating to the non real-time application that the real-time packets generated subsequent to the delay substantially immediately followed the real-time packets generated prior to the delay in the information stream.

49. The method of Claim 46, wherein the indication  
25 to the non real-time application that the real-time packets generate subsequent to the delay follow the real-time packets generated prior to the delay in the message by the time amount less than the delay comprises an in-  
30 band notification.

50. The method of Claim 49, wherein the in-band notification comprises timing indicators in the real-time packets.

5 51. The method of Claim 46, further comprising:  
storing a value of a timing indicator upon the  
intervening event; and

generating the real-time packets for transmission of  
the information stream after the delay based on the value  
10 of the timing indicator.

52. The method of Claim 46, further comprising  
periodically transmitting a packet during the delay to  
prevent an automatic disconnection by the non real-time  
15 application.

53. The method of Claim 46, wherein the non real-  
time application comprises an application recording the  
information stream.  
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54. The method of Claim 46, wherein the intervening  
event comprises an intervening connection.

55. The method of Claim 46, wherein the information  
25 stream comprises an audio stream.

56. The method of Claim 46, wherein the real-time  
packets comprise timing indicators indicating to the non  
real-time application that the real-time packets  
30 generated after the delay immediately follow the real-  
time packets generated prior to the delay in the  
information stream.

58. The method of Claim 46, further comprising:  
5 establishing a connection with the non real-time  
application; and

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61. A method for call answer while connected to voice mail, comprising:

5       generating real-time transport protocol (RTP)  
packets for transmission of a message toward a voice mail  
system;

interrupting generation of the RTP packets in  
response to a call answer by a party generating the  
10 message;

storing a time stamp value and a sequence number  
sub PID value upon interrupting generation of the RTP packets;

resuming generation of the RTP packets for transmission of the message toward the voice mail system after a delay ending upon resumption by the party of the message; and

upon resumption, generating the RTP packets based on the time stamp value and the sequence number value, the time stamps and sequence numbers of the RTP packets generated after the delay operable to indicate to the voice mail system that the RTP packets substantially immediately follow the RTP packets generated prior to the call answer in the message.